

**GOVERNMENT OF INDIA
NON-CONVENTIONAL ENERGY SOURCES
LOK SABHA**

UNSTARRED QUESTION NO:4109
ANSWERED ON:18.04.2002
PROJECT OF NCES IN A.P. AND UTTARANCHAL
ALE NARENDRA

Will the Minister of NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

- (a) the details of projects carried out to produce non-conventional energy sources in Andhra Pradesh and Uttaranchal;
- (b) the details of project cost, estimated power generation, Central assistance and foreign investment etc; and
- (c) the details of amount allocated to the new projects to be undertaken in the States to produce non-conventional energy?

Answer

MINISTER OF STATE OF THE NON-CONVENTIONAL ENERGY SOURCES (SHRI M. KANNAPPAN)

(a) & (b) : The Ministry of Non-conventional Energy Sources has been supporting a wide range of non-conventional energy projects / programmes for power generation based on solar, wind, biomass and small hydro power throughout the country including the States of Andhra Pradesh and Uttaranchal. Details of physical achievements made upto 31st March, 2002 in the States of Andhra Pradesh and Uttaranchal, the average project cost, average power generation under various projects are given in Annexure-I. The Central Financial Assistance is provided in the form of capital subsidy, interest subsidy and soft term loans through Indian Renewable Energy Development Agency, a Public Sector Undertaking of this Ministry, depending upon terms and conditions of the various non-conventional energy programmes / schemes. Besides, fiscal incentives are also available including Foreign Direct Investment upto 100% for renewable energy projects. The details of Central Financial Assistance available under various non-conventional energy programmes / projects is given in Annexure-II.

(c): The State-wise allocation of funds is not made by the Ministry. The funds are allocated depending upon the techno-economic viability of the projects, fulfillment of terms and conditions laid down under projects / programmes and availability of financial resources.

Annexure-I

Annexure-I referred to in reply to parts (a) and (b) of Lok Sabha Unstarred Question No.4109 for 18.04.2002 regarding projects of NCES in Andhra Pradesh and Uttaranchal

Details of achievements made upto 31st March, 2002, average project cost, average power generation under various Non-Conventional Energy Projects in the States of Andhra Pradesh and Uttaranchal

Name of Project	Achievement as on 31.03.2002	Average Project cost	Average Power Generation
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Andhra Pradesh Uttaranchal

Wind Power (MW)	93.00	-	Rs.4.50-5.00 crore/MW	16.00 lakh kWh/MW/year
Biomass Power (MW)	101.20	-	Rs.2.00-4.50 crore/MW	4-6 MU/MW/ year
Biomass Gasifiers (MW)	1.54	0.30	Rs.25-30 lakh/100kW	2000Kwh/100 kw/year
Small Hydro Power (MW)	149.21	28.25	Rs.4.00-5.00 crore/MW	3 MU/MW/year
Waste-to-energy (MW)	2.75	-	Rs.4.00-6.00 crore/MW	6 MU/MW/year
Solar Photovoltaic				

(grid connected) (kWp)	275	-	Rs.2.70-3.00 cr/100 kWp	30 lakh kWh/100 Kwp/year
Solar Photovoltaic				

(non-grid-connected)

(kWp) 20.60 80.00 Rs.3.50-4.00 lakh/kWp 1500 kWh/kWp/
year

MW = Megawatt;
MU = Million Unit;
kWh = Kilowatt hour;
kWp = Kilowatt peak;
kW = Kilowatt

Annexure-II

Annexure-II referred to in reply to parts (a) and (b) of Lok Sabha Unstarred Question No.4109 for 18.04.2002 regarding projects of NCES in Andhra Pradesh and Uttaranchal

Central Financial Assistance under major non-conventional energy programmes

S. No. Name of Programme Details of subsidies

1. Solar Photovoltaic Power
(non-grid connected Rs.1.80 lakhs / kWp of PV array capacity for
general category

Rs.3.50 lakh /kWp of PV array capacity for
North East Region and Sikkim

2. Biomass Gasifier 30% to 60% for general States

90% for North East Region and Sikkim

10% of higher rate of subsidy for SC/ST
and weaker sections.

3. Small Hydro Programme

Capital subsidy

Upto 500 kW 90% cost upto Rs.0.75 lakh per kW for NE States

Equipment cost +50% of civil cost upto Rs.30,000
to Rs.45,000 per kW for other States

Above 500 kW to 1 MW 90% cost upto Rs.0.60 lakh per kW for NE States

Equipment cost +50% of civil cost upto Rs.30,000
to Rs.45,000 per kW for other States

Above 1 MW to 5 MW 75% cost upto Rs.4.50 crores per MW for NE States

Equipment cost +25% of civil cost upto Rs.1.50 crores
to Rs.3.00 crores per MW for other States

Above 5 MW to 15 MW Equipment cost +25% of civil cost upto Rs.22.50 crores per project for NE States

Equipment cost +25% of civil cost upto Rs.7.50 crores to Rs.15.00 crores per project for other States

Interest subsidy 1.5% to 7.5%

4. Wind Power Upto 60% of equipment cost for demonstration projects

5. SPV Power (grid connected) Upto Rs. 2 crores / 100 KW

6. Biomass Power

Capital subsidy

a. Maximum exportable Power 45 MW

60 bar and above Rs.35 lakh per MW of surplus power limited to Rs.31.50 crores per project

80 bar and aboveb. Rs.45 lakh per MW of surplus power limited to Rs.40.50 crores per project

Maximum exportable power 9MW

60 bar and above Rs.35 lakh per MW of surplus power limited to Rs.6.30 crores per project

80 bar and above Rs.45 lakh per MW of surplus power limited to Rs.8.10 crores per project

Interest subsidy 1% to 3%